

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/002270A. CLASSIFICATION OF SUBJECT MATTER
IPC⁷: F16H 61/12, F02D 45/00.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC⁷: F16H, F02D, E16H, G05B, G01K, G01M, G06F.Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
—Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPI, EPODOC, PAJ.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 830 106 A (ABE M. et al.) 3 November 1998 (03.11.1998) <i>abstract, figures 1, 4-5, 7-14, column 2, line 16 to column 3, line 64.</i>	1-3, 5-10
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A	JP 2004 011869 A (NISSAN MOTOR CO LTD) 15 January 2004 (15.01.2004) <i>abstract, figures 1-4.</i>	4-5, 7-10
—	—	—
A	JP 2003 294128 A (JATCO LTD) 15 October 2003 (15.10.2003) <i>abstract, figures 1-2.</i>	1, 5-10
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 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the International filing date
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Date of the actual completion of the international search
20 December 2004 (20.12.2004)Date of mailing of the international search report
5 January 2005 (05.01.2005)Name and mailing address of the ISA/ AT
Austrian Patent Office
Dresdner Straße 87, A-1200 Vienna

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PCT/KR 2004/002270

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 848 381 A (ISHII, S. et al.) 8 December 1998 (08.12.1998) <i>abstract, figures 1-3, 5.</i>	1-3, 5-10
A	— US 5 995 887 A (HATHAWAY, R. R. et al.) 30 November 1999 (30.11.1999) <i>abstract, figures 1-3.</i>	2, 4-5, 7-10
A	— KR 2003 0040600 A (HYUNDAI MOTOR COMPANY) 23 May 2003 (23.05.2003) <i>abstract, figure from abstract.</i>	4-5, 7-10

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International application No.
PCT/KR 2004/002270

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
JP A 20032941 28A2				none	
JP A 20040118 69A2				none	
KR A 20030040 600				none	
US A 5830106	1998-11-03	JP	A	9329222	1997-12-22
		JP	A	9329221	1997-12-22
		DE	A	19724651	1997-12-18
US A 5848381	1998-12-08	JP	A	10111162	1998-04-28
US A 5995887	1999-11-30			none	